

WHAT IS CLAIMED IS:

1. A stabilized dihydrolipoic acid compound for use in a medicament or a nutritional supplement.

2. The stabilized dihydrolipoic acid compound of claim 1, wherein the dihydrolipoic acid compound is derived from a once living source.

3. The stabilized dihydrolipoic acid compound of claim 2, wherein the once living source is a probiotic organism.

4. A microbiological culture media for producing a stabilized dihydrolipoic acid compound comprising:

at least one live probiotic organism;

*R*-lipoic acid; and

at least one nutritive agent.

5. The microbiological culture media of claim 4, wherein the at least one live probiotic organism is selected from the group consisting of *Lactobacillus* species, *Bifidobacterium* species, *Enterococcus* species, *Streptococcus thermophilus*, and combinations thereof.

6. The microbiological culture media of claim 5, wherein the at least one live probiotic organism is a *Lactobacillus* species selected from the group consisting of *L. acidiophilus*, *L. paracasei*, *L. fermentum*, *L. rhamnosus*, *L. johnsonii*, *L. plantarum*, *L. reuteri*, *L. salivarius*, *L. brevis*, *L. bulgaricus*, *L. helveticus*, *L. grasserri*, *L. casei*, *L. lactis*, and combinations thereof.

7. The microbiological culture media of claim 5, wherein the at least one live probiotic organism is a *Bifidobacterium* species selected from the group consisting of *B. bifidum*, *B. breve*, *B. infantis*, *B. longum*, *B. lactis*, and combinations thereof.

8. The microbiological culture media of claim 5, wherein the at least one live probiotic organism is a *Enterococcus* species selected from the group consisting of *E. faceum*, *E. faecalis*, and combinations thereof.

9. The microbiological culture media of claim 5, wherein the at least one live probiotic organism is *Streptococcus thermophilus*.

10. The microbiological culture media of claim 4, comprising at least one live probiotic organism selected from the group consisting of *Lactobacillus* species and at least one probiotic organism selected from the group consisting of *Bifidobacterium* species.

11. The microbiological culture media of claim 4, wherein the nutritive agent is turmeric rhizome (*curcuma longa*).

12. The microbiological culture media of claim 4 comprising:  
about 40 composition weight percent of a paste including at least one live probiotic organism;  
about 20 composition weight percent *R*-lipoic acid; and  
about 40 composition weight percent turmeric rhizome powder.

13. A process for preparing a stabilized dihydrolipoic acid compound comprising:

dispersing the microbiological culture media of claim 3 in distilled water to form a broth;  
incubating the broth at a predetermined temperature for a select time period to induce probiotic activity;  
adding organic ethanol to halt the probiotic activity; and  
separating the stabilized dihydrolipoic acid from the broth.

14. The process of claim 13, wherein the broth is incubated at a temperature of about 35°C to about 40°C.

15. The process of claim 13, wherein the broth is incubated for a period of about 72 to about 168 hours.

16. A process for naturally deriving a beneficial compound comprising: preparing a microbiological culture comprising at least one live probiotic organism and at least one nutritive agent;

incubating the microbiological culture to initiate probiotic activity;  
harvesting a waste byproduct of the probiotic activity; and  
separating the beneficial compound from the waste byproduct.

17. The process of claim 16, wherein the beneficial compound is stabilized dihydrolipoic acid.

18. The process of claim 16, wherein the at least one live probiotic organism is selected from the group consisting of *Lactobacillus* species, *Bifidobacterium* species, *Enterococcus* species, *Streptococcus thermophilus*, and combinations thereof.

19. The process of claim 16, wherein the nutritive agent is turmeric rhizome (*curcuma longa*).